

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P393000

Luminaire Tested: **14EN-LD2-25-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-50)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-25-UNV-L82765-W2A-1-U (5700K)
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2465.4 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

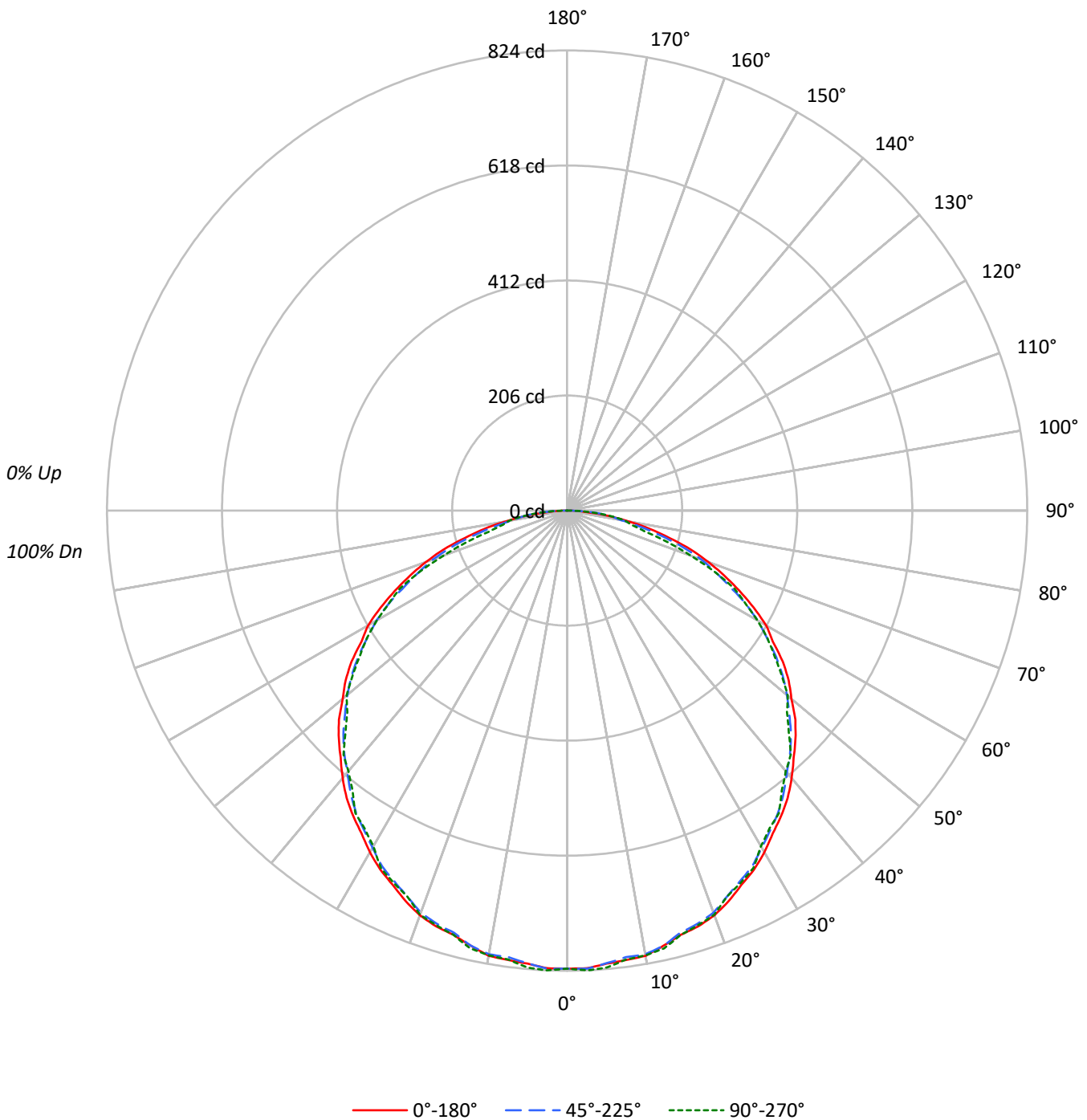
Input Watts (W): 26
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2207	2207	2207
5°	2200	2197	2218
10°	2212	2204	2209
15°	2191	2180	2191
20°	2208	2194	2205
25°	2195	2175	2184
30°	2195	2165	2156
35°	2194	2166	2172
40°	2197	2150	2140
45°	2201	2157	2135
50°	2195	2151	2159
55°	2211	2143	2125
60°	2215	2122	2116
65°	2166	2044	2105
70°	2116	2009	1851
75°	1974	1814	1493
80°	1748	1508	1643
85°	1250	1695	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.1
10°-20°	222.8	9.0
20°-30°	339.3	13.8
30°-40°	413.0	16.8
40°-50°	438.5	17.8
50°-60°	410.3	16.6
60°-70°	324.5	13.2
70°-80°	183.3	7.4
80°-90°	56.0	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	639.7	25.9
0°-40°	1052.7	42.7
0°-60°	1901.6	77.1
0°-90°	2465.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	814	814	814	817	821	78
15°	786	789	783	790	786	223
25°	739	740	732	734	735	342
35°	668	667	659	654	661	418
45°	578	574	567	565	561	446
55°	471	465	457	453	453	420
65°	340	334	321	325	331	337
75°	190	185	174	154	144	202
85°	40	45	55	55	53	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.2	820.2	820.2	820.2	820.2
2.5°	820.2	822.1	821.2	818.3	824.1
5°	814.4	814.4	813.5	817.3	821.2
7.5°	811.5	812.5	806.7	814.4	810.6
10°	809.6	811.5	806.7	805.8	808.6
12.5°	798.0	797.1	798.0	798.0	802.9
15°	786.5	789.4	782.6	790.3	786.5
17.5°	780.7	784.5	775.9	776.8	778.8
20°	771.1	767.2	766.2	763.3	770.1
22.5°	756.6	750.8	747.9	751.8	747.9
25°	739.2	740.2	732.5	733.5	735.4
27.5°	724.8	723.8	718.0	716.1	721.9
30°	706.5	700.7	696.8	697.8	693.9
32.5°	685.3	684.3	677.6	676.6	674.7
35°	667.9	667.0	659.3	654.4	661.2
37.5°	648.6	641.9	637.1	634.2	631.3
40°	625.5	621.7	612.0	610.1	609.1
42.5°	600.5	600.5	590.8	585.0	592.7
45°	578.3	573.5	566.7	564.8	560.9
47.5°	554.2	549.4	539.7	536.8	534.0
50°	524.3	524.3	513.7	509.9	515.6
52.5°	500.2	495.4	486.7	484.8	483.8
55°	471.3	464.6	456.8	453.0	453.0
57.5°	436.6	434.7	424.1	421.2	425.0
60°	411.5	403.8	394.2	391.3	393.2
62.5°	376.9	370.1	359.5	357.6	359.5
65°	340.2	333.5	321.0	324.8	330.6
67.5°	304.6	298.8	287.2	290.1	285.3
70°	268.9	263.1	255.4	244.8	235.2
72.5°	232.3	221.7	216.9	196.6	189.9
75°	189.9	185.1	174.5	154.2	143.6
77.5°	152.3	147.5	134.0	116.6	117.6
80°	112.8	116.6	97.3	103.1	106.0
82.5°	75.2	75.2	80.0	83.9	83.9
85°	40.5	45.3	54.9	54.9	53.0
87.5°	15.4	22.2	24.1	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)